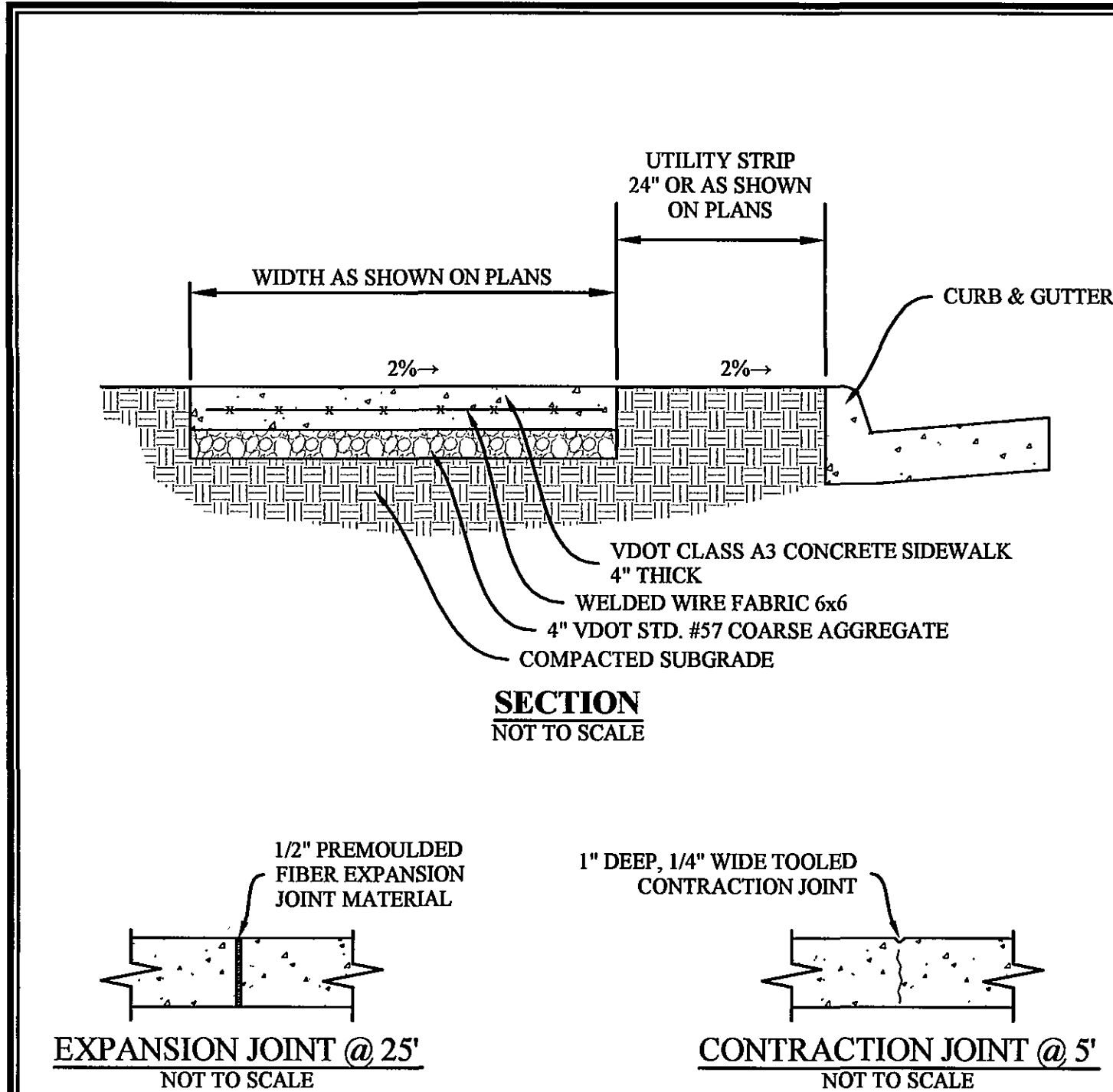


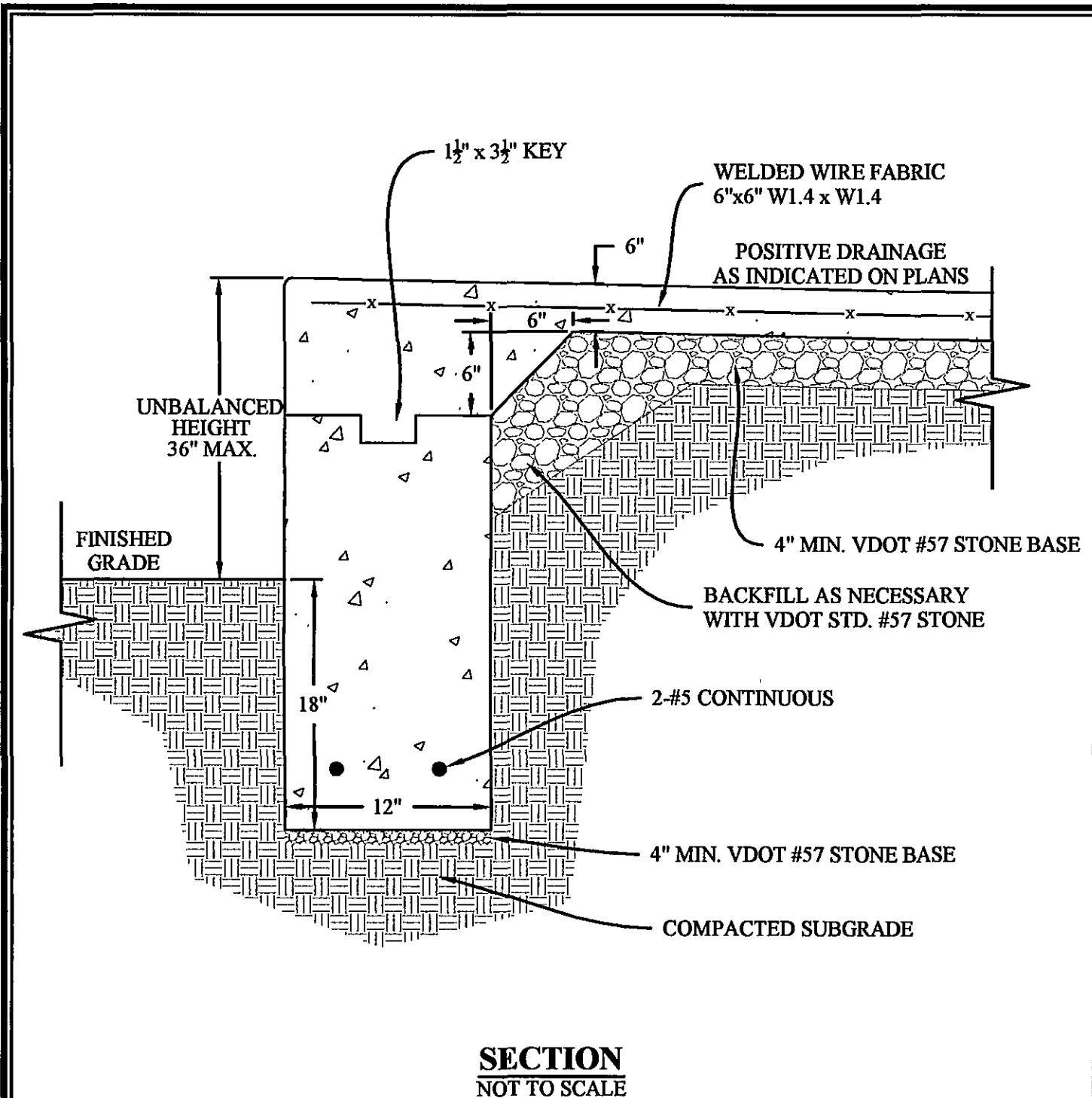
- GENERAL NOTES:
- Standard commercial "Entrance" shall have a minimum curb radius (R) of 7 1/2 feet.
 - Minimum Entrance width to be 12 feet.
 - Where curb & gutter already exists both curb & gutter shall be removed. If proposed entrance falls within five (5) feet of an existing joint removal & reconstruction shall be to that joint. Any concrete removed at other than an existing joint shall be cut with a mechanical saw specifically manufactured for that purpose; this also shall apply to street pavement.
 - Where sidewalk exists or is to be constructed across driveways the thickness thereof must correspond with the thickness of the entrance.
 - Whenever "Entrance" exceeds twenty-four (24) feet in width a 1/2" pre-molded expansion joint filler shall be installed through the center perpendicular to flow line.
 - Finish "Entrances" shall have a "course broom finish" running parallel to flow line.
 - Curing shall be accomplished by the use of a liquid membrane seal containing white pigment applied at the rate of one (1) gallon per 150 square feet.
 - All "Entrance Ways" shall be constructed according to City of Roanoke specifications and to line and grades approved by the City Engineering Department.
 - Entrances exceeding 30 feet in width shall be approved by the City Manager.

OFFICE OF THE CITY ENGINEER - ROANOKE, VIRGINIA		
APPROVED	STANDARD	SHEET
CITY ENGINEER	CITY OF ROANOKE	5 OF 7
DATE:	COMMERCIAL ENTRANCE	



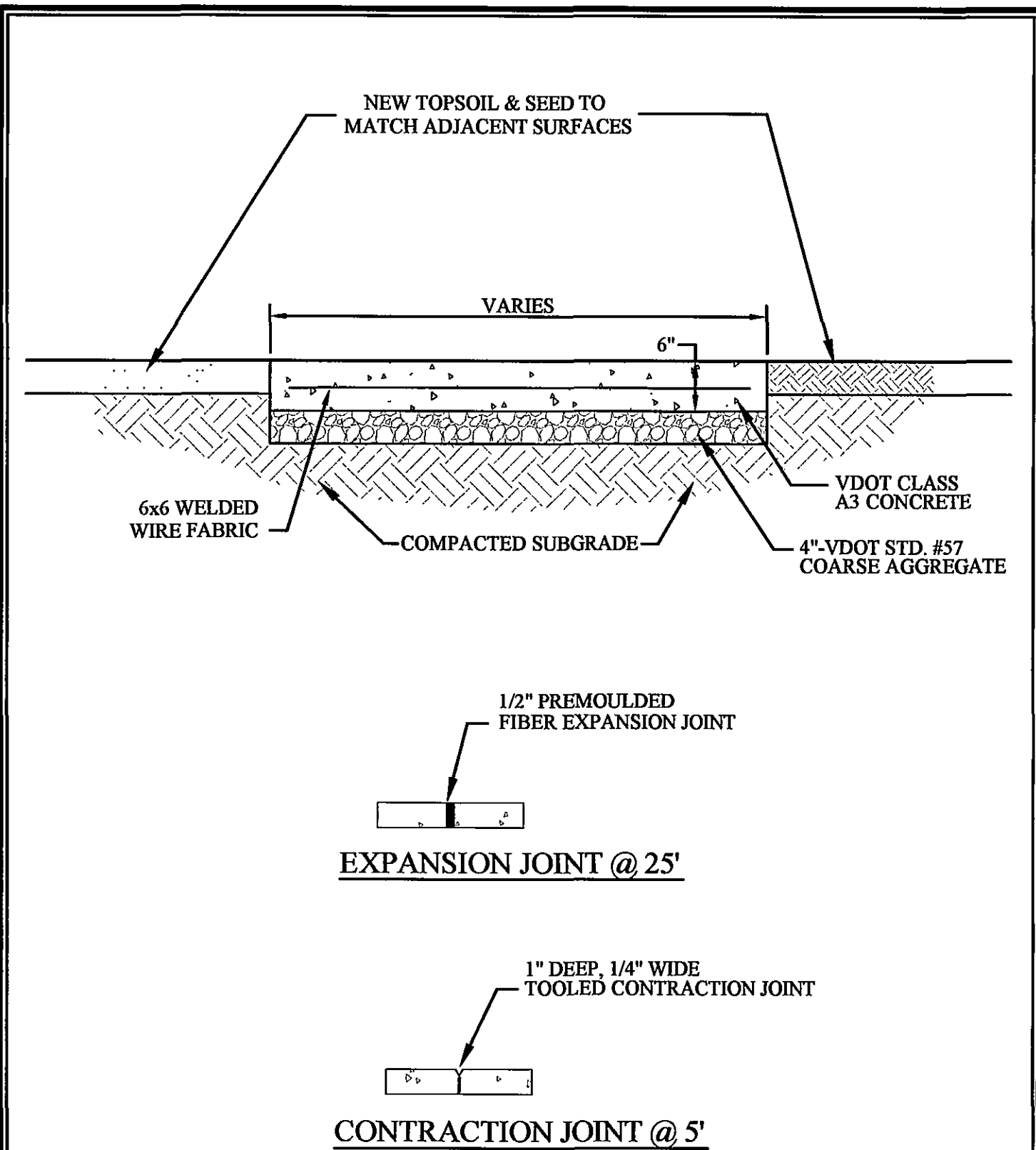
- NOTES:
- Match new walkways flush with existing walkways.
 - Width of new walkway shall match existing walkways which they abut.
 - Surface of walkway shall have "broom" finish perpendicular to main axis of walkway.

ACS SW-10 CONCRETE WALK WITH UTILITY STRIP		
2203 PETERS CREEK ROAD, NW	ROANOKE, VIRGINIA 24017	Phone 540.562.2345 - Fax 540.562.2344
13399 BOOKER T. WASHINGTON HWY.	HARDY, VIRGINIA 24101	Phone 540.719.2345 - Fax 540.719.2344
ENGINEERING - SURVEYING - LANDSCAPE ARCHITECTURE - CONSTRUCTION MANAGEMENT		



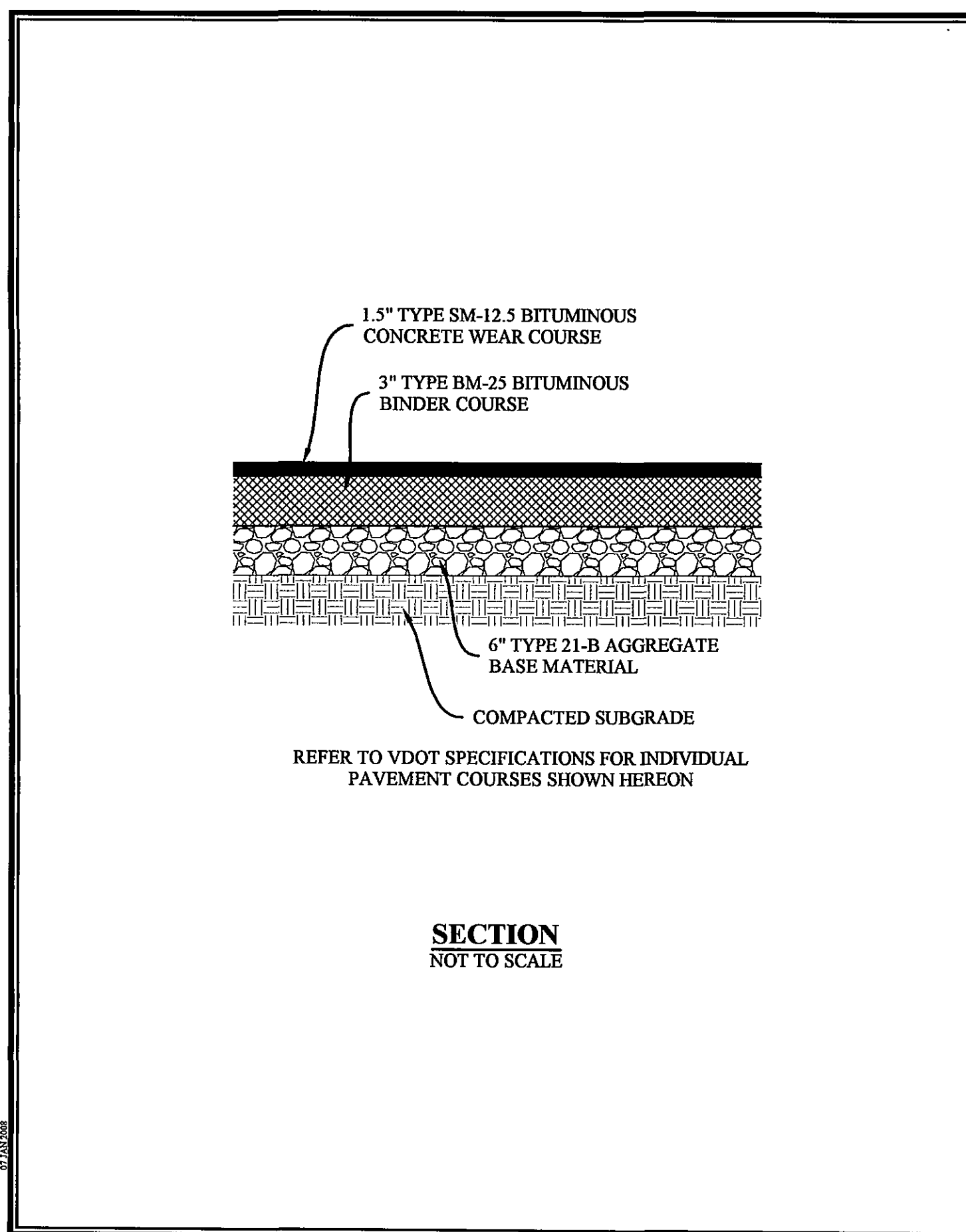
- NOTES:
- All fill material shall be VDOT #57 stone.
 - The color and finish of the new sidewalk shall match that of adjacent sidewalks.
 - Apply bonding agent between new & previous pours.
 - Where sidewalk is poured against any dissimilar material such as a building, install a pre-molded expansion joint.
 - All concrete shall be VDOT Class A3.
 - Where unbalanced height exceeds 2' - 6" a guard shall be required not less than 42 inches in height.

ACS SW-15 ELEVATED CONCRETE SIDEWALK		
2203 PETERS CREEK ROAD, NW	ROANOKE, VIRGINIA 24017	Phone 540.562.2345 - Fax 540.562.2344
13399 BOOKER T. WASHINGTON HWY.	HARDY, VIRGINIA 24101	Phone 540.719.2345 - Fax 540.719.2344
ENGINEERING - SURVEYING - LANDSCAPE ARCHITECTURE - CONSTRUCTION MANAGEMENT		

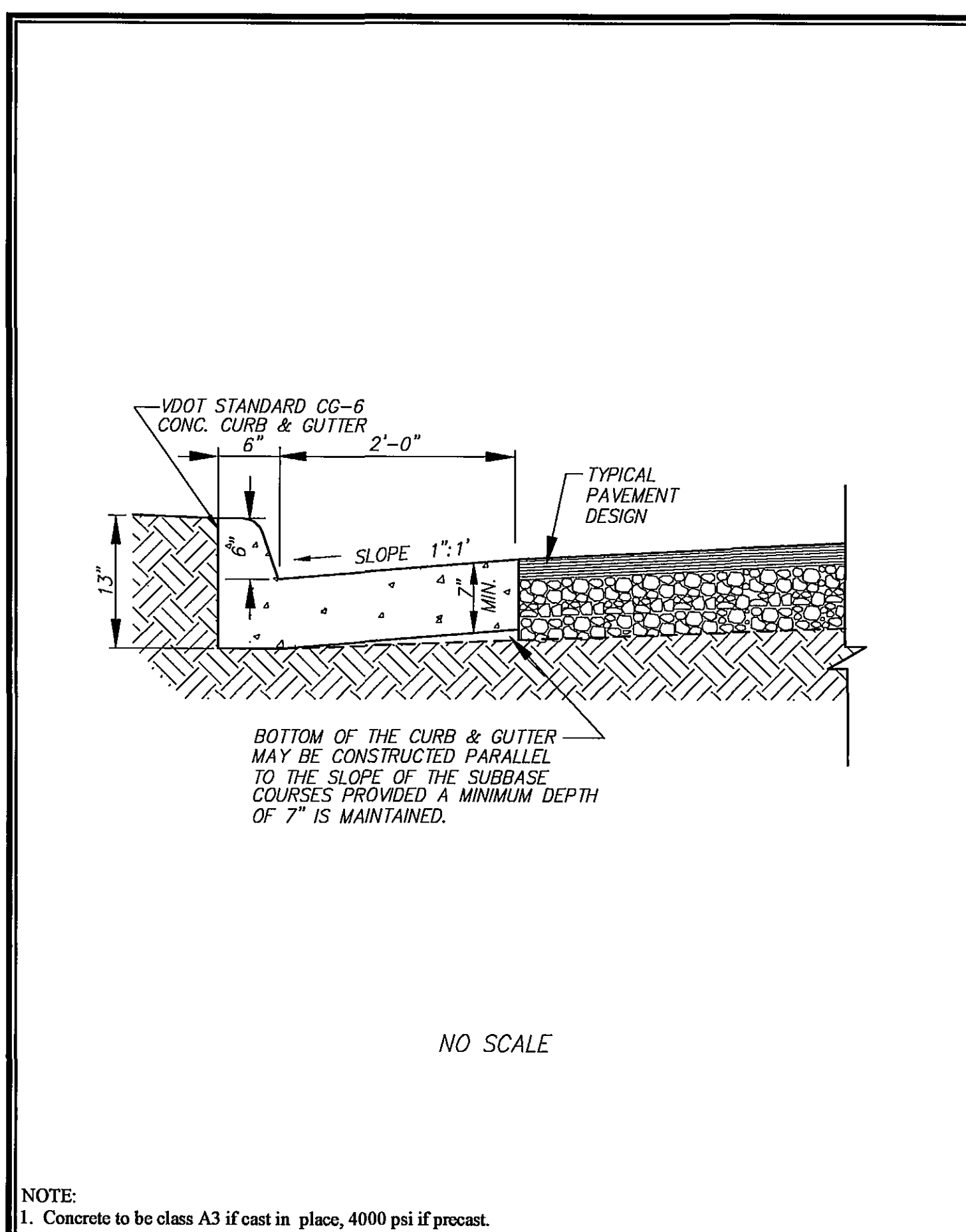


- NOTES:
- Match new walkways flush with existing walkways.
 - Width of new walkway shall match existing walkways which they abut.
 - Surface of walkway shall have "broom" finish perpendicular to main axis of walkway.

ACS SW-01 CONCRETE WALK		
2203 PETERS CREEK ROAD, NW	ROANOKE, VIRGINIA 24017	Phone 540.562.2345 - Fax 540.562.2344
13399 BOOKER T. WASHINGTON HWY.	HARDY, VIRGINIA 24101	Phone 540.719.2345 - Fax 540.719.2344
ENGINEERING - SURVEYING - LANDSCAPE ARCHITECTURE - CONSTRUCTION MANAGEMENT		

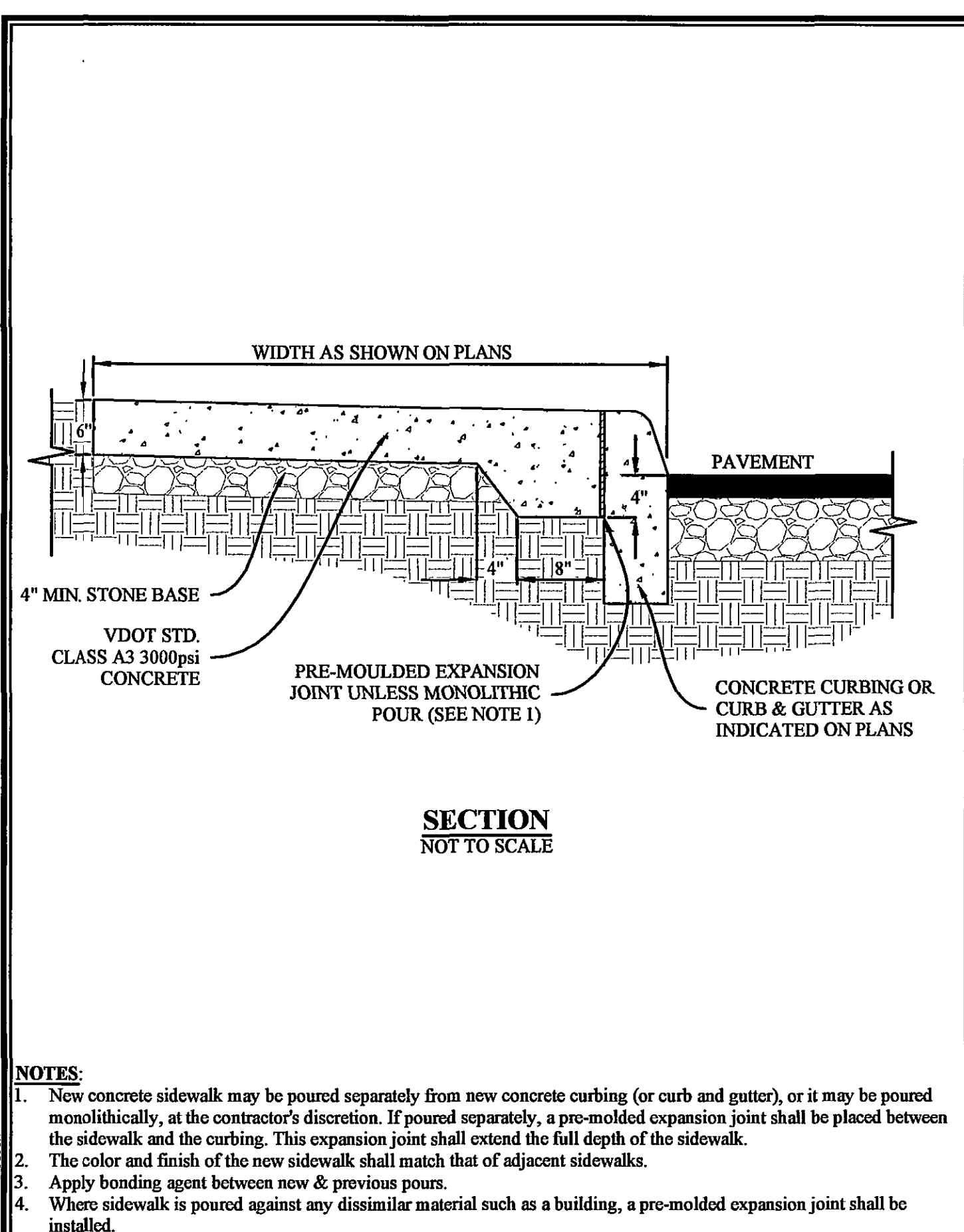


ACS PV-02 HEAVY DUTY BITUMINOUS PAVEMENT CROSS-SECTION		
2203 PETERS CREEK ROAD, NW	ROANOKE, VIRGINIA 24017	Phone 540.562.2345 - Fax 540.562.2344
13399 BOOKER T. WASHINGTON HWY.	HARDY, VIRGINIA 24101	Phone 540.719.2345 - Fax 540.719.2344
ENGINEERING - SURVEYING - LANDSCAPE ARCHITECTURE - CONSTRUCTION MANAGEMENT		



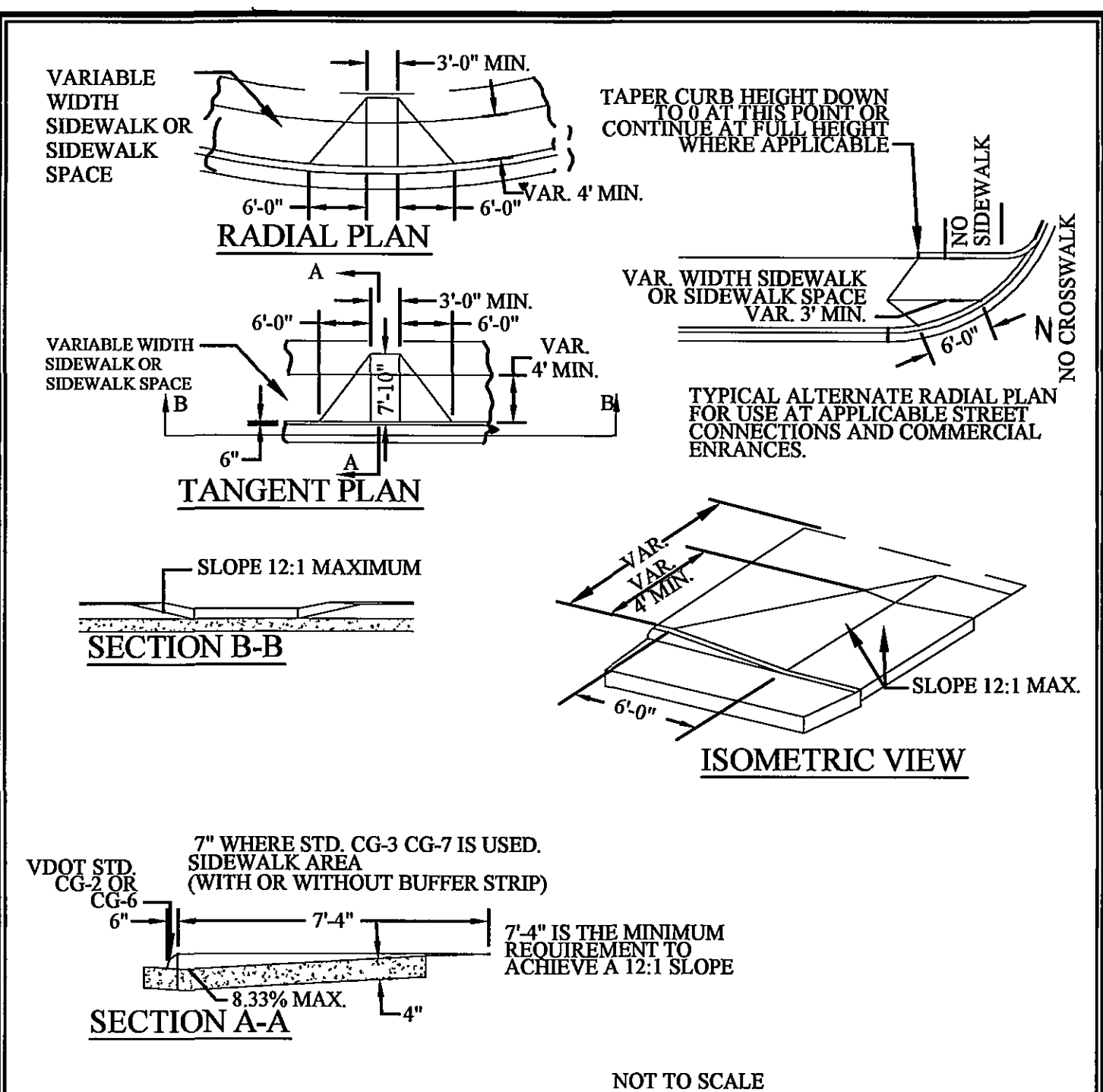
- NOTE:
- Concrete to be class A3 if cast in place, 4000 psi or precast.

ACS SW-11 CONCRETE CURB AND GUTTER DETAIL		
2203 PETERS CREEK ROAD, NW	ROANOKE, VIRGINIA 24017	Phone 540.562.2345 - Fax 540.562.2344
13399 BOOKER T. WASHINGTON HWY.	HARDY, VIRGINIA 24101	Phone 540.719.2345 - Fax 540.719.2344
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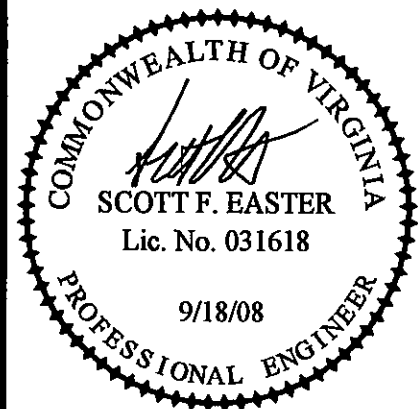
- NOTES:
- New concrete sidewalk may be poured separately from new concrete curbing (or curb and gutter), or it may be poured monolithically, at the contractor's discretion. If poured separately, a pre-molded expansion joint shall be placed between the sidewalk and the curbing. This expansion joint shall extend the full depth of the sidewalk.
 - The color and finish of the new sidewalk shall match that of adjacent sidewalks.
 - Apply bonding agent between new & previous pours.
 - Where sidewalk is poured against any dissimilar material such as a building, a pre-molded expansion joint shall be installed.

ACS SW-05 CONCRETE SIDEWALK AND CURB		
2203 PETERS CREEK ROAD, NW	ROANOKE, VIRGINIA 24017	Phone 540.562.2345 - Fax 540.562.2344
13399 BOOKER T. WASHINGTON HWY.	HARDY, VIRGINIA 24101	Phone 540.719.2345 - Fax 540.719.2344
ENGINEERING - SURVEYING - LANDSCAPE ARCHITECTURE - CONSTRUCTION MANAGEMENT		



- NOTES:
- All concrete shall be VDOT Class A-3 with non-skid finish. Ramp shall not exceed a maximum slope of 12:1.
 - Curb ramps shall be located as shown on the plans or as directed by the engineer. They shall be provided at intersections wherever an accessible route within the right-of-way of a highway facility crosses a curb regardless of whether sidewalk is existing, proposed, or nonexistent. They may be offset from pedestrian crosswalk as shown on plans as directed by the Engineer, but should not be located behind vehicle stop lines. Existing light poles, fire hydrants, drop inlets, etc. will also affect placement. When used in conjunction with VDOT Std. CG-3 or CG-7, the curb face on this standard is to be adjusted to match the mountable curb configuration.
 - Treatment where width of sidewalk or sidewalk space is less than 7'-4".
 - Accessible route is defined as a continuous, unobstructed, stable, firm, and slip resistant path connecting all accessible elements of a facility that can be approached, entered, and used by persons with mobility impairments.

ACS SW-12 CONCRETE CURB CUT RAMP (Facility for the Physically Handicapped)		
This information is based on and modeled after VDOT Standard CG-12 of the VDOT Road & Bridge Specifications.		



ACS DESIGN

ENGINEERING • SURVEYING
LANDSCAPE ARCHITECTURE
CONSTRUCTION MANAGEMENT

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1602 9TH STREET, SE
ROANOKE, VIRGINIA

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DRAWN BY: CLK
DESIGNED BY: CLK
CHECKED BY: SFE
DATE: 13 MAY 2008
JOB NUMBER: 06028

REVISIONS:	
No. 1	18 AUGUST 2008
PER ROANOKE CITY COMMENTS	
No. 2	
No. 3	
No. 4	

SHEET NO.:
C1.4

SITE
DETAILS